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AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Previously Cancelled)
2. (Previously Cancelled)
3. (Previously Cancelled)
4. (Previously Cancelled)
5. (Previously Cancelled)
6. (Previously Cancelled)
7. (Previously Cancelled)
8. (Previously Cancelled)
9. (Previously Cancelled)
10. (Previously Cancelled)
11. (Previously Cancelled)
12. (Previously Cancelled)
13. (Previously Cancelled)
14. (Previously Cancelled)
15. (Previously Cancelled)
16. (Currently Amended) A system for enabling a requesting party to initiate a telephone call directly to a voice mail box associated with a service subscriber to a voice mail system (VMS), comprising:
 - a call control node configured as a virtual service switching point in a switched telephone network, the call control node being adapted to receive a connection request message sent in response to a request to access the voice mail box by a calling party, the connection request message requesting setup of a direct call to a voice mail box, and to respond to the connection request message by formulating a call set-up message to initiate establishment of a

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call connection to the VMS, the call set-up message having a format reserved for redirected call set-up messages used by service switching points (SSPs) to redirect uncompleted calls to the service subscriber, so that the VMS provides access to the voice mail box.

17. (Original) A system as claimed in claim 16 wherein the call control node comprises an interface to a common channel signaling (CCS) network that operates under a signaling system 7 (SS7) protocol, and the call set-up message is an integrated services digital network-user part (ISUP) initial advisory message (IAM).
18. (Original) A system as claimed in claim 17 wherein the call control node further comprises:
 - means for formulating an IAM;
 - means for inserting a directory number (DN) of the VMS into a called party number parameter of the IAM, in conformance with a SS7 standard; and
 - means for inserting an original called number parameter, a redirecting number parameter and a redirection information parameter into the IAM, the redirecting number parameter containing a DN of the service subscriber, in conformance with the SS7 standard.
19. (Original) A system as claimed in claim 18 wherein the call control node further comprises means for inserting a redirecting reason code into the redirection information parameter.
20. (Original) A system as claimed in claim 19 wherein the call control node comprises a call control application (CCA) adapted to control the call control node (CCN), and the CCA is further adapted to receive the message requesting the establishment of the direct call to the voice mail box.
21. (Original) A system as claimed in claim 20 wherein the CCN is a virtual switching point in the call connection, and the connection request message is a reconnect request message from call termination equipment, and the reconnect request message contains a DN of the call termination equipment, a DN of the requesting party, a DN of the service subscriber, and a DN of the VMS.

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22. (Original) A system as claimed in claim 21 further comprising a directory service database adapted to supply the call termination equipment with the DN of the VMS, and the DN of the service subscriber.
23. (Original) A system as claimed in claim 22 wherein the directory service database is further adapted to supply the call termination equipment with a redirecting reason code in response to a query.
24. (Original) A system as claimed in claim 21 wherein the CCA is further adapted to receive the reconnect request message, and to initiate a release by the CCN of a part of the established call connection between a virtual instance of the CCN and the telephony equipment, and to initiate an extension of the established call connection by the CCN between the virtual instance of the CCN and the VMS using the IAM.
25. (Currently Amended) A system as claimed in claim 20 further comprising ~~an~~a worldwide web server adapted to receive click-to-voice mail notifications from at least one web page and to relay ~~a~~the connection request message to the CCA, conforming to a predefined format.
26. (Original) A system as claimed in claim 25 wherein the connection request message is relayed through a proxy server.
27. (Original) A system as claimed in claim 25 wherein the connection request message contains the DNs of the requesting party, service subscriber and VMS.
28. (Currently Amended) A system as claimed in claim 21 further comprising a database adapted to supply the proxy server with the DN of the VMS, associated with the DN of the service subscriber in response to a query.
29. (Original) A system as claimed in claim 28 wherein the database is further adapted to supply the proxy server with and a redirecting reason code in response to the query.

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30. (Original) A system for providing a directory service with a direct to voice mail option for voice mail system (VMS) service subscribers, comprising:
a directory service that permits a requesting party to communicate an identifier used to locate a directory record associated with the VMS service subscriber, the directory service being adapted to provide the requesting party with an option to be connected directly to the VMS service subscriber's voice mail box after the record is located; and
means for formulating a common channel signaling initial address message (IAM) containing a redirecting number parameter to connect the requesting party directly to the voice mail box of the VMS service subscriber.
31. (Original) The system as claimed in claim 30 wherein the directory service is instantiated on call termination equipment adapted to receive dial-up connections from the public switched telephone network (PSTN) and to interact with the requesting party.
32. (Currently Amended) The system as claimed in claim 31 wherein the directory service is a directory service application ~~is~~ instantiated on a worldwide web server adapted to interact with the requesting party through the Internet.
33. (Original) The system as claimed in claim 30 wherein the means for formulating a common channel signaling initial address message (IAM) is a call control node (CCN) that is configured as a virtual switching point in the public switched telephone network (PSTN) and a physical node in a common channel signaling network of the PSTN.
34. (Original) The system as claimed in claim 33 wherein the CCN comprises a call control application (CCA) that is adapted to interface with an Internet Protocol (IP) network, and further adapted to provide control functions to the CCN.
35. (Original) A system for providing a click to voice mail option accessed from a server on an internet protocol (IP) network, comprising:

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a user interface for permitting a requesting party to select the click to voice mail option, the click to voicemail option being associated with a particular voice mail box of a voice mail system (VMS) subscriber;

means for forwarding a message requesting setup of a connection directly to the voice mail box; and

means for receiving the message and formulating a common channel signaling system initial address message (IAM) containing a directory number of the VMS inserted in a called party number parameter of the IAM and a directory number of the VMS service subscriber inserted in the redirecting number parameter of the IAM.

36. (Original) A system as claimed in claim 35 wherein the means for receiving the message comprises a call control node (CCN) adapted to receive messages from the IP network, and to formulate and send the IAM into the common channel signaling network.
37. (Original) A system as claimed in claim 36 wherein the CCN is configured as a physical node in the common channel signaling network and as a virtual switching point in a switched telephone network associated with the common channel signaling network.
38. (Original) A system as claimed in claim 35 wherein the user interface is provided by one of a worldwide web page and an electronic mail message.
39. (Original) A system as claimed in claim 38 wherein the means for forwarding comprises the worldwide web server.
40. (Original) A system as claimed in claim 38 wherein the means for forwarding comprises a proxy server that receives the message requesting setup of a connection directly to the voice mail box and forwards the message to a call control node adapted to receive messages from the IP network.

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